

June 8<sup>th</sup>-August 7th, 2015 Los Alamos National Laboratory

Los Alamos Research Park TA-3, Bldg. 4200

## **Student Projects**

IMAC Abstracts-Due June 12, 2015 Student Presentation Drafts I- June 24, 2015 Student Presentation Drafts II - July 17, 2015 Student Presentation Drafts III - July 24, 2015 Student Final Presentations-Due August 6&7, 2015 -UNCLASSIFIED- LA-UR-15-28554-

#### Week 1 June 8-12

Student Orientation GET Training Administrative and Training Details Tutorials: Statistics, DAQ\*, ABAQUS\*

#### Week 2 June 15-19

Programming\*, Matlab\*
Guest Lectures:
Remote Power Delivery-David Mascarenas
Making Effective Presentations: Rethinking
Slide Design -Phil Cornwell
Aerospace Structures-Nick Lieven
IMAC Abstracts Due

Tutorials: Signal Processing, Object Orientated

#### Week 3 June 22-26

Tutorials: Dynamics Systems, Machine Learning\* Guest Lectures:

Fullfield Stress Strain from Limited Measurements

- -Pete Avitabile
- -Pete Avitabile
- -Dustin Harvey

**Student Presentations** 

#### Week 4 June 29-July 2

Tutorials: System ID Guest Lectures: -Garrett Kenyon

#### \*optional tutorials

#### Week 5 July 6-10

Tutorials: Embedded Systems Guest Lectures: -Heidi Hahn -Jim Wren Student Presentations

#### Week 6 July 13-17

Tutorials: Controls Guest Lectures: Nuclear Safeguards-Karen Miller -Keith Worden

#### Week 7 July 20-24

Tutorials: Nonlinear Systems
Guest Lectures:
-Amy Larson
Applying to Graduate School-C. Farrar, M. Todd
-Guest Lecture
Student Presentations

### Week 8 July 27-31

Tutorials: Verification and Validation

### Week 9 August 3-7

Practice Sessions
Presentations
LADSS BBQ at Chuck's
Departure Processing/Lab Clean Up
Wrap Up

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For the most up to date schedule, please check the LADSS Outlook Calendar.

## AGENDA

## Week 1, June 8-12

## Monday, June 8

**Orientation** 03/4200/203 A & B (Los Alamos Research Park)

07:30 - 08:30	Badging-Students
08:30 - 08:45	Lunch Selection, Money Collection-All
08:45 - 09:00	Welcome-Dave Clark, NSEC
09:00 - 9:45	How to Get the Most from Your Internship- Emily Robinson, SPO
09:45 - 10:00	LA Chamber of Commerce Presentation-Nancy Partridge, LA Chamber of Commerce
10:00 - 10:10	Student Worker Safety & Security-Enrique Trujillo, SWSST Rep, PSI
10:10 - 10:20	Break
10:20 - 10:45	Taxation of Fellowships-Mike Cunningham, TPT
10:45 - 11:10	You and Your Safety-Ella Twary, DSESH-STO
11:10 - 11:20	Security-Andrew Wall-SEO-4
11:20 - 11:30	Break, Distribute Lunches
11:30 - 01:00	Lunch/Speaker: Kelsey Neal-2015 LADSS
01:00 - 02:30	Introduction to the 16th LADSS, Chuck Farrar, EI
02:30 - 03:30	Break, Meet with Mentors
03:30 - 05:00	Proceed to Labs, Lab Inspections-Ella Twary-DSESH-STO

## Tuesday

08:00 - 04:00

<b>Wednesday</b> 08:00 – 09:00 09:30 – 01:00	Administrative and Training Updates 03/4200/300 Break Room Begin Projects
<b>Thursday</b> 08:00 – 09:30 01:00 – 03:00	Tutorial: Statistics (Eric Flynn) 03/4200/203 A&B Tutorial: *Data Acquisition: (Eric Flynn) 03/4200/301
Friday 08:00 - 09:30 01:00 - 03:00 05:00	Tutorial: Statistics (David Mascarenas) 03/4200/203 A&B Tutorial: *Abacus: (TBD) 03/4200/301 IMAC Abstracts Due

**GET Training - White Rock** 

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## Week 2, June 15-19

### Monday, June 15

08:00 – 09:00 Signal Processing (Eric Flynn) 03/4200/203 A&B

01:00 – 03:00 Matlab\* (Dustin Harvey) 03/4200/301 NSEC Conference Room

Tuesday, June 16

08:00 – 09:00 Signal Processing (Eric Flynn) LARP Room 203 A&B

03:30 – 05:00 Lecture: Remote power Delivery (David Mascarenas) LARP Room 203 A&B

Wednesday, June 17

08:00 – 09:00 Signal Processing (Eric Flynn) 03/4200/203 A&B

01:00 – 03:00 Object Orientated Programming\* (Eric Flynn) 03/4200/301 NSEC Suite

6:00pm Pizza Party at François'

Thursday, June 18

08:00 – 09:00 Signal Processing (Eric Flynn) LARP Room 203 A&B 03:30 - 05:00 Lecture: TBD (Nick Lieven) LARP Room 203 A&B

Friday, June 18

01:30 - 02:30 Lecture: Making Effective Presentations: Rethinking Slide Design (Phil

Cornwell) LARP Room 203 A&B

## Week 3, June 22-26

#### Monday, June 22

08:00 – 09:30 Dynamic Systems (Pete Avitable) 03/4200/203 A&B

01:00 – 03:00 Machine Learning\* (Dustin Harvey) 03/4200/301 NSEC Suite

Tuesday, June 23

08:00 – 09:30 Dynamic Systems (Pete Avitable) 03/4200/101 Viz Lab

03:30 – 05:00 Lecture: Fullfield Stress Strain from Limited Measurements (Pete

Avitabile) 03/4200/101 Viz Lab

#### Wednesday, June 24

08:00 – 09:30 Dynamic Systems (DJ Luscher) 03/4200/301 03:00 – 05:00 Lecture: Pete Avitabile 03/4200/101 Viz Lab

Thursday, June 25

08:00 – 09:30 Dynamic Systems (DJ Luscher) LARP Room 203 A&B

03:30 – 05:00 Lecture: Dustin Harvey LARP Room 203 A&B

Friday, June 26

08:00 – 09:30 Dynamic Systems (Pete Avitable) 03/4200/101 Viz Lab

01:00 – 05:00 Student Presentations I 03/4200/101 Viz Lab

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## Week 4 June 29-July 2

Monday, June 29

08:00 – 09:00 System ID (Eric Flynn) 03/4200/101 Viz Lab

Tuesday, June 30

08:00 – 09:00 System ID (Eric Flynn) 03/4200/101 Viz Lab 03:30 – 05:00 Lecture: (Garrett Kenyon) 03/4200/101 Viz Lab

Wednesday, July 1

08:00 – 09:00 System ID (Eric Flynn) 03/4200/101 Viz Lab

Thursday, July 2

08:00 – 09:00 System ID (Eric Flynn) LARP Room 203 A&B

Friday, July 3 Holiday

## Week 5- July 6-10

Monday, July 6

08:00 – 09:00 Embedded Systems (David Mascarenas) 03/4200/101 Viz Lab

Tuesday, July 7

08:00 – 09:00 Embedded Systems (David Mascarenas) LARP Room 203 A&B 03:30 – 05:00 Lecture: Design Thinking (Heidi Hahn) LARP Room 203 A&B

Wednesday, July 8

08:00 – 09:00 Embedded Systems (David Mascarenas) 03/4200/101 Viz Lab

Thursday, July 9

08:00 – 09:00 Embedded Systems (David Mascarenas) LARP Room 203 A&B

03:30 – 05:00 Lecture: (Jim Wren) LARP Room 203 A&B

Friday, July 10

01:00 – 05:00 Student Presentations II 03/4200/101 Viz Lab

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### Week 6 July 13-17

Monday, July 13

08:00 – 09:00 Controls (Alex Scheinker) 03/4200/101 Viz Lab

Tuesday, July 14

08:00 – 09:00 Controls (Alex Scheinker) LARP Room 203 A&B

03:30 – 05:00 Lecture: Nuclear Safeguards (Karen Miller) LARP Room 203 A&B

Wednesday, July 15

08:00 – 09:00 Controls (Alex Scheinker) 03/4200/101 Viz Lab

Thursday, July 16

08:00 – 09:00 Controls (Alex Scheinker) LARP Room 203 A&B 03:30 – 05:00 Lecture: (Keith Worden) LARP Room 203 A&B

Friday, July 17

08:00 – 09:00 Controls (Alex Scheinker) 03/4200/101 Viz Lab

### Week 7 July 20-24

Monday, July 20

08:00 – 09:00 Non Linear Systems (Mike Todd) 03/4200/101 Viz Lab

Tuesday, July 21

08:00 – 09:00 Non Linear Systems (Mike Todd) LARP Room 203 A&B

03:30 – 05:00 Lecture: (Amy Larson) LARP Room 203 A&B

Wednesday, July 22

08:00 – 09:00 Non Linear Systems (Mike Todd) 03/4200/101 Viz Lab

01:00 – 03:00 Applying to Graduate School (C. Farrar, M. Todd) 03/4200/101 Viz Lab

Thursday, July 23

08:00 – 09:00 Non Linear Systems (Mike Todd) LARP Room 203 A&B

03:30 – 05:00 Lecture: (TBD) LARP Room 203 A&B

Friday, July 24

01:00 – 05:00 Student Presentations III (Students, Mentors) 03/4200/101 Viz Lab

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### Week 8 July 27- 31

Monday, July 27

08:00 – 09:30 Verification and Validation (Francois Hemez) 03/4200/101 Viz Lab

Tuesday, July 28

08:00 – 09:30 Verification and Validation (François Hemez) LARP Room 203 A&B

Wednesday, July 29

08:00 – 09:30 Verification and Validation (Francois Hemez) 03/4200/101 Viz Lab

Thursday, July 30

08:00 – 09:30 Verification and Validation (François Hemez) LARP Room 203 A&B

03:30 – 05:00 Lecture: (Jim Wren) LARP Room 203 A&B

Friday, July 31

08:00 – 09:30 Verification and Validation (Francois Hemez) 03/4200/101 Viz Lab

#### Week 9 August 3-7

Monday, August 3 Open

## Tuesday, August 4 Practice Sessions-LARP Room 203 A&B

08:00 - 09:00	Group 1-
09:00 - 10:00	Group 2-
10:00 - 11:00	Group 3-
11:00 - 01:00	Lunch Break
01:00 - 02:00	Group 4-
02:00 - 03:00	Group 5-
03:00 - 04:00	Group 6-
04:00 - 05:00	Group 7-

#### **Wednesday, August 5-**Presentations- all presentations are in 03/4200/101

03:00 - 03:30	Presentation Group 1
03:40 - 04:10	Presentation Group 2
04:20 - 04:50	Presentation Group 3

#### **Thursday, August 6-**Presentations- all presentations are in 03/4200/101

08:00 - 08:30	Presentation Group 4
08:40 - 09:10	Presentation Group 5
09:20 - 09:50	Presentation Group 6
10:00 - 10:30	Presentation Group 7
11:30 - 03:00	Departure Processing

03:00 – 05:00 Lab Clean up and Equipment Return 05:30 LADSS BBQ at Chuck Farrar's house

**Friday-**08:00-12:00 Summer School Survey Discussion and Wrap Up (301 Break Room)